

## Proposal Full View

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### Applicant Information

Organization Name City of Antioch \*

Tax ID 946000293

Proposal Name City of Antioch Stormwater Flood Management Grant Proposal \*

Proposal Objective The City of Antioch is partnering with the Contra Costa County Flood Control District (District) to address chronic flooding of West Antioch Creek through the installation of three 14' by 7' Caltrans Standard Box Culverts spanning 620 feet. These box culverts will increase the storm water capacity of the creek, replacing an inadequate concrete trapezoidal ditch and arch culverts. This installation will provide a 25-year level of flood protection (the maximum achieved without expanding the AT&SF RR crossing) to commercial and multi-family properties adjacent to the channel and within a Disadvantaged Community Area by addressing a gap that currently exists between channel improvements made by the Contra Costa County Flood Control & Water Conservation District in 1993 and the earthen channel on the Antioch Fairgrounds property. Implementation of the Drainage Area 55 – West Antioch Creek Channel Improvements project will achieve the following key goals and objectives: (1) To improve flood protection for the community, including disadvantaged communities (DACs); (2) To eliminate a significant public health threat to a DAC caused by exposure to various constituents of concern present in the degraded flood waters; (3) To provide water quality and habitat protection benefits by reducing flood-related debris and pollutant loading in West Antioch Creek, which flows directly into New York Slough; and (4) To provide recreation benefits by minimizing the number of times annually the Costa County Fairgrounds, the Antioch Little League Complex and Prosserville Park need to be closed due to flooding. \*

### Budget

Other Contribution	\$0.00
Local Contribution	\$2,997,300.00
Federal Contribution	\$0.00
Inkind Contribution	\$0.00
Amount Requested	\$2,997,300.00 *
Total Project Cost	\$5,994,600.00 *

### Geographic Information

Latitude *	DD(+/-) 38	MM 0	SS 18	
Longitude *	DD(+/-) 121	MM 48	SS 17	
Longitude/Latitude Clarification				Location East of San Francisco
County				Contra Costa *
Ground Water Basin				San Joaquin Valley-Tracy
Hydrologic Region				San Joaquin
Watershed	West Antioch Creek			

### Legislative Information

Assembly District	11th Assembly District *
Senate District	7th Senate District *
US Congressional District	District 10 (CA) *

## Project Information

### Project Benefits Information

Project Name Drainage Area 55 - West Antioch Creek Chann

Project Benefit Type	Benefit Type	Measurement	Description
			The City of Antioch is partnering with the Contra Costa County Flood Control District (District) to address chronic flooding of West Antioch Creek through the installation of three 14' by 7' Caltrans Standard Box Culverts spanning 620 feet. These box culverts will increase the storm water capacity of the creek, replacing an inadequate concrete trapezoidal ditch and arch culverts. This installation will provide a 25-year level of flood protection (the maximum achieved without expanding the AT&SF RR crossing) to commercial and multi-family properties adjacent to the channel and within a Disadvantaged Community Area

Primary	Flood Protection	160	<p>by addressing a gap that currently exists between channel improvements made by the Contra Costa County Flood Control &amp; Water Conservation District in 1993 and the earthen channel on the Antioch Fairgrounds property. This project will significantly increase the stormwater capacity of that reach, from less than 400 cubic feet per second to 2,810 cubic feet per second, thereby providing much-needed flood protection to the surrounding community, which is a designated disadvantaged community (DAC). Currently, this community is impacted by moderate to severe flooding multiple times per year, resulting in flood-related damages, loss of function for local businesses, city services and recreation areas, as well as potential public health threats caused by exposure to degraded flood waters.</p>
Secondary	Other- General Public Recreation	0	<p>Flooding of the West Antioch Creek often results in the closure of the Costa County Fairgrounds, the Antioch Little League Complex and Prosserville Park. Implementation of this Project will reduce the frequency of the closures and the associated loss of recreation.</p>
Secondary	Other- Water quality in general	0	<p>Implementation of the Drainage Area 55 – West Antioch Creek Channel Improvements project would eliminate health risks to a disadvantaged community posed by chronic exposure to degraded flood waters. The chronic flooding exposes residents of this disadvantaged community to degraded – and potentially dangerous - flood waters. Degraded water quality of flood waters in urban areas poses a real threat to human health as they may contain potentially hazardous or infectious materials, such as fecal material from overflowing sewer systems, pathogens, agricultural runoff, and chemicals from commercial and industrial areas. Direct contact with polluted flood waters through wound infections, dermatitis, conjunctivitis, and ear, nose and throat infections poses a significant risk of infection. One epidemic-forming disease that may be contracted from body contact with flood waters is leptospirosis, a bacterial disease, which may be transmitted through contact of the skin or mucous membranes with contaminated water, damp soil or vegetation or mud contaminated with rodent urine. Contact with debris-laden flood waters can also cause injury. In addition to water quality impacts to the local community, Delta water quality will continue to be impacted in the absence of this project. When these impaired floodwaters recede, debris and pollutants make their way back into West Antioch Creek, which flows into the Sacramento – San Joaquin Bay – Delta upstream of New York Slough. Additional debris and pollutants are left behind, either to be cleaned by the DAC or absorbed into the local environment. Implementation of this project would address these water quality impacts of concern.</p>

**Budget**

Other Contribution	0
Local Contribution	2997300
Federal Contribution	0
Inkind Contribution	0
Amount Requested	2997300
Total Project Cost	5994600

**Geographic Information**

Latitude DD(+/-)	38	MM 0	SS 18
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Longitude DD(+/-)	121	MM 48	SS 17
Longitude/Latitude Clarification	Location East of San Francisco		
County	Contra Costa		
Ground Water Basin	San Joaquin Valley-Tracy		
Hydrologic Region	San Joaquin		
WaterShed	West Antioch Creek		

**Legislative Information**

Assembly District	11th Assembly District
Senate District	7th Senate District
US Congressional District	District 10 (CA)

**Section : Applicant Information Question Tab****APPLICANT INFORMATION QUESTION TAB****Q1. PROPOSAL DESCRIPTION**

Provide a brief abstract of the Proposal, including a listing of individual project titles or types.

This Proposal contains a single multi-benefit flood protection project: the Drainage Area 55 ??? West Antioch Creek Channel Improvements Project. The City of Antioch is partnering with the Contra Costa County Flood Control District (District) to implement this project, which will address chronic flooding of West Antioch Creek through the installation of three 14'?? by 7'?? Caltrans Standard Box Culverts spanning 620 feet. These box culverts will increase the storm water capacity of the creek, replacing an inadequate concrete trapezoidal ditch and arch culverts. This installation will provide a 25-year level of flood protection (the maximum achieved without expanding the AT&SF RR crossing) to commercial and multi-family properties adjacent to the channel and within a Disadvantaged Community Area by addressing a gap that currently exists between channel improvements made by the Contra Costa County Flood Control & Water Conservation District in 1993 and the earthen channel on the Antioch Fairgrounds property. Implementation of the Drainage Area 55 ??? West Antioch Creek Channel Improvements project will achieve the following key goals and objectives:

(1) To improve flood protection for the community, including disadvantaged communities (DACs); (2) To eliminate a significant public health threat to a DAC caused by exposure to various constituents of concern present in the degraded flood waters; (3) To provide water quality and habitat protection benefits by reducing flood-related debris and pollutant loading in West Antioch Creek, which flows directly into New York Slough; and (4) To provide recreation benefits by minimizing the number of times annually the Costa County Fairgrounds, the Antioch Little League Complex and Prosserville Park need to be closed due to flooding.

**Q2. PROJECT DIRECTOR**

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Phil Harrington, Capital Improvements Director, City of Antioch Address: City Hall, Third and ???H??? Streets, PO Box 5007, Antioch CA 94531-5007 Phone: 925-779-7025 Email: pharrington@ci.antioch.ca.us

**Q3. PROJECT MANAGEMENT**

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Phil Harrington, Capital Improvements Director, City of Antioch Address: City Hall, Third and ???H??? Streets, PO Box 5007, Antioch CA 94531-5007 Phone: 925-779-7025 Email: pharrington@ci.antioch.ca.us

**Q4. APPLICANT INFORMATION**

Provide the agency name, address, city, state, and zip code of the applicant submitting the application. Also provide the name and contact information of the person filling out the online application.

City of Antioch Address: City Hall, Third and ???H??? Streets, PO Box 5007, Antioch CA 94531-5007 Online Application was prepared by: Alyson Watson 415.404.6442 Email: awatson@rmcwater.com

**Q5. ADDITIONAL INFORMATION**

Provide the funding area(s) in which projects are located.

[http://www.water.ca.gov/irwm/integregio\\_fundingarea.cfm](http://www.water.ca.gov/irwm/integregio_fundingarea.cfm)

San Joaquin Funding Area

**Q6. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD (S)**

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.

[http://www.waterboards.ca.gov/waterboards\\_map.shtml](http://www.waterboards.ca.gov/waterboards_map.shtml)

Central Valley Region (Region 5)

**Q7. ELIGIBILITY**

Is the application from an IRWM planning region approved in the RAP (See Section II B, Table 1)? If yes, include the name of the IRWM planning region. If not, explain.

Yes, the East Contra Costa County Region.

**Q8.  
ELIGIBILITY**

Is the applicant a local agency or non-profit organization as defined in Appendix B of the Grant Guidelines?

Yes

**Q9.  
ELIGIBILITY**

List the urban water suppliers that will receive funding from the proposed grant. Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420. If there are none, so indicate and you do not have to answer Q10 and Q11.

City of Antioch

**Q10.  
ELIGIBILITY**

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2005 Urban Water Management Plans (UWMP) to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP. Will all of the urban water suppliers listed in Q9, along with any additional urban water suppliers that meet the urban water supplier definition threshold for the first time, submit updated 2010 UWMPs, consistent with the 2010 UWMP Guidebook and verified as complete by DWR, before the execution of a grant agreement? If not, explain.

Yes.

**Q11.  
ELIGIBILITY**

Have any urban water suppliers listed in Q9 recently submitted AB 1420 compliance tables and supporting documentation to DWR for a different grant program within the past three months? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section IIIB of the Guidelines for additional information.

Yes. AB 1420 compliance tables and supporting documentation was submitted for the Proposition 84 Implementation Grant. The City of Antioch received a letter dated January 28, 2011 confirming compliance with AB 1420 requirements and eligibility to receive water management grant funds.

**Q12.  
ELIGIBILITY**

Does the Proposal include any groundwater management or groundwater recharge projects or projects with potential groundwater impacts? If so, provide the name(s) of the project (s) and list the agency(ies) that will implement the project(s).

No.

**Q13.  
ELIGIBILITY**

For the agency(ies) listed in Q12, how has the agency complied with CWC §10753 regarding GWMPs, as described in Section III.B of the Grant Guidelines?

Not Applicable.

**Q14:  
ELIGIBILITY**

Does the applicant have a Stormwater Resources Plan developed pursuant to Part 2.3 (commencing with Section 10560) of Division 6 of the Water Code, or an IRWM Plan that includes the Stormwater Resources Plan requirements specified in Section 10562 of the Water Code? Please answer yes or no. If yes, please answer Question 15 or 16, as applicable.

- a) Yes
- b) No

**Q15:  
ELIGIBILITY**

For applicants with a Stormwater Resources Plan, does that Plan meet the standards set forth in Part 2.3 of Division 6 of the CWC? If yes, provide attachment 13.

- a) Yes
- b) No

**Q16:  
ELIGIBILITY**

For applicants with an IRWM Plan, does that Plan include the Stormwater Resources Plan requirements specified in Section 10562 of the CWC? If yes, provide attachment 13.

- a) Yes
- b) No

**NOTES TO BMS  
ADMINISTRATOR**

Provide notes about any potential problems you may have had with BMS that are particular to your application.

**Section : Application Attachments Tab**

APPLICATION ATTACHMENTS TAB

**ATTACHMENT 1: AUTHORIZATION AND ELIGIBILITY REQUIREMENTS**

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Upload Authorization and Eligibility documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).  
Last Uploaded Attachments: Att1\_SWF\_Eligible\_1of1.pdf

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here.

**ATTACHMENT 2: ADOPTED PLAN AND PROOF OF FORMAL ADOPTION**

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Upload Proof of Formal Adoption documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).  
Last Uploaded Attachments: Att2\_SWF\_Adopt\_1of1.pdf

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

**ATTACHMENT 3: WORK PLAN**

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Upload the Work Plan here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).  
Last Uploaded Attachments: Att3\_SWF\_WorkPlan\_1of2.pdf

Upload additional work plan components here.  
Last Uploaded Attachments: Att3\_SWF\_WorkPlan\_2of2.pdf

Upload additional work plan components here.

Upload additional work plan components here.

Upload additional work plan components here.

**ATTACHMENT 4: BUDGET**

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Upload the Budget here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).  
Last Uploaded Attachments: Att4\_SWF\_Budget\_1of1.pdf

Upload additional budget components here.

Upload additional budget components here.

Upload additional budget components here.

Upload additional budget components here.

**ATTACHMENT 5: SCHEDULE**

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Upload the Schedule here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).  
Last Uploaded Attachments: Att5\_SWF\_Schedule\_1of1.pdf

Upload additional schedule components here.

Upload additional schedule components here.

Upload additional schedule components here.

Upload additional schedule components here.

**ATTACHMENT 6: MONITORING, ASSESSMENT, AND PERFORMANCE MEASURES**

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Upload Monitoring, Assessment, and Performance Measures here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).  
Last Uploaded Attachments: Att6\_SWF\_Measures\_1of1.pdf

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

**ATTACHMENT 7: ECONOMIC ANALYSIS - FLOOD DAMAGE REDUCTION COSTS AND BENEFITS**

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Upload Economic Analysis - Flood Damage Reduction Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att7\_SWF\_DReduc\_1of1.pdf

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

**ATTACHMENT 8: ECONOMIC ANALYSIS - WATER SUPPLY COSTS AND BENEFITS**

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Upload Economic Analysis - Water Supply Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att8\_SWF\_WSBen\_1of1.pdf

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

**Section : Application Attachments Tab (cont)****APPLICATION ATTACHMENTS TAB (CONT)****ATTACHMENT 9: WATER QUALITY AND OTHER EXPECTED BENEFITS**

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Upload Water Quality and Other Expected Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att9\_SWF\_WQOtherBen\_1of1.pdf

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

**ATTACHMENT 10: COSTS AND BENEFITS SUMMARY**

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Upload Costs and Benefits Summary here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att10\_SWF\_CBSummary\_1of1.pdf

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

**ATTACHMENT 11: PROGRAM PREFERENCES**

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Upload Program Preference documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att11\_SWF\_Preference\_1of1.pdf

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

**ATTACHMENT 12: AB1420 AND WATER METER COMPLIANCE INFORMATION**

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Upload AB1420 and Water Meter Compliance Information here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att12\_SWF\_Compliance\_1of1.pdf

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

**ATTACHMENT 13: STORMWATER RESOURCES  
PLAN**

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This attachment is only necessary if the applicant has an existing Stormwater Resources Plan, pursuant (commencing with Section 10560) of Division 6 of the Water Code and answered "yes" to Q15 or Q16.

The summary text must be no more than 5 pages in length using a minimum of 10-point type font. Excerpts from the Plan must not exceed 15 pages.

Attachment 13 must provide the following:

Identify and include portions of the applicable Plan that demonstrate all of the standards of Part 2.3 (commencing with Section 10560) of Division 6 of the CWC.

Last Uploaded Attachments: Att13\_SWF\_Strmrespln\_1of1.pdf

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.

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